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6. [20030108973](#). 20 May 02. 12 Jun 03. Immunoassay and reagents and kits for performing the same. Gatto-Menking, Deborah L., et al. 435/7.93; 435/287.2 G01N033/53 G01N033/537 G01N033/543 C12M001/34.
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8. [20030082189](#). 29 Aug 02. 01 May 03. Humanized neutralizing antibodies against hemolytic uremic syndrome. Tzipori, Saul, et al. 424/164.1; A61K039/40.
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9. [20020160005](#). 07 Jan 02. 31 Oct 02. Human neutralizing antibodies against hemolytic urmec syndrome. Tzipori, Saul, et al. 424/150.1; 435/340 435/70.21 A61K039/40 C12N005/06 C12P021/04.
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10. [20020009467](#). 18 Jun 01. 24 Jan 02. Antigenic substance inductor, vaccine precursor, vaccine, antibody, neutralizing antibody, antitoxin, idiotype antibody and/or anti-idiotype antibody which is induced by its idiotype antibody. Koyama, Shozo, et al. 424/268.1; 514/461 514/679 514/683 514/75 A61K031/66 A61K039/015 A61K031/12.
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11. [6518038](#). 28 Nov 00; 11 Feb 03. Detection and quantification of one or more target analytes in a sample using spatially localized analyte reproduction. Wardlaw; Stephen C., et al. 435/34; 435/287.2 435/30. C12Q001/04.
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435/7.21; 356/317 356/318 385/12 385/129 385/130 385/131 422/55 422/57 422/82.08 422/82.11  
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15. 6306657. 25 Sep 96; 23 Oct 01. Polynucleotide probe and kit for amplifying signal detection in hybridization assays. Pandian; Sithian, et al. 436/6; 435/6 530/387.1 536/24.3. G01N031/00.
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16. 6060256. 16 Dec 97; 09 May 00. Optical diffraction biosensor. Everhart; Dennis S., et al. 435/7.21; 427/2.13 435/7.2 436/164 436/501 436/513 436/63. G01N033/567 G01N033/566 G01N033/48 G01N021/00.
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18. 5658751. 27 Oct 94; 19 Aug 97. Substituted unsymmetrical cyanine dyes with selected permeability. Yue; Stephen T., et al. 435/34; 435/29 435/4 435/6 436/800 436/94 536/1.11 536/25.6 536/26.73. C12Q001/04 C12Q001/02 G01N033/00 C07H019/20.
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19. 5627030. 15 Jul 94; 06 May 97. Method of amplification for increasing the sensitivity of detecting nucleic acid-probe target hybrids. Pandian; Sithian, et al. 435/6; 435/5 536/24.3. C07H021/04 C12Q001/68.
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20. RU 2189253C. Diagnosticum for identification of escherichia coli and method of its preparing. BORZENKOV, V N, et al. A61K039/108.
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Terms	Documents
L6 and covalent\$	20

[Prev Page](#)   [Next Page](#)   [Go to Doc#](#)

First Hit    Fwd Refs Generate Collection

L10: Entry 23 of 32

File: USPT

Sep 3, 1996

DOCUMENT-IDENTIFIER: US 5552144 A

TITLE: Immunogenic shiga-like toxin II variant mutants

Detailed Description Text (15):

The mutant toxins and polypeptides of the invention may also be used as adjuvants in vaccines against various types of microorganisms, including those that produce diseases in humans. For example, a currently marketed vaccine against Haemophilus influenza type b comprises fragments of the polysaccharide coat of the bacterium conjugated to diphtheria toxin. A second example uses cholera toxin A and/or B subunits for adjuvant activity coupled to surface proteins from bacteria causing disease unrelated to disease caused by Vibrio cholerae.

## CLAIMS:

4. A vaccine for inducing an immune response in an animal host to bacteria that causes edema disease of swine comprising an immunologically effective amount of the immunogenic mutant Shiga-Like Toxin II variant holotoxin of claim 1 or the immunogenic polypeptide of claim 3 in a pharmaceutically acceptable carrier.

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<input type="checkbox"/>	L1	0157 or 0-157 or o157h7 or 0-157-h-7 or 157h7 or 157-h-7	3800
<input type="checkbox"/>	L2	coupl\$	2610889
<input type="checkbox"/>	L3	conjugat\$	204549
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<input type="checkbox"/>	L5	link or linked or linker or linkers or linking or linkage or links	1678326
<input type="checkbox"/>	L6	l1 same (l2 or l3 or l5 or l4)	152
<input type="checkbox"/>	L7	L6 and covalent\$	20
<input type="checkbox"/>	L8	(shiga or holo or holotoxin or holo-toxin or slt or slt1 or slt\$2 or shigatoxin or shiga-toxin or shigalike or shiga-like or holotoxins or stx1 or stx2).ti,ab,clm.	921
<input type="checkbox"/>	L9	L8 same (l2 or l3 or l4 or l5)	161
<input type="checkbox"/>	L10	l9 and (l1 or polysaccharide or saccharide or disaccharide or trisaccharide or oligosaccharide or oligo-saccharide or poly-saccharide or lipopolysaccharide or lipo-poly-saccharide)	32
<input type="checkbox"/>	L11	L10 and l8	32
<input type="checkbox"/>	L12	vero or vero-txoin or vero-cytotoxin or verotoxin or verocytotoxin or stx or stx1 or stx-1 or slt or slt-s or slt1 or stx2 or stx2e or stx2c or stx2e or stx-2e or sltiie or sltii or slt2 or slt-2 or shigalike or shigaliketoxn or shiga-like or verolike or vero-like or vt1 or vt-1	18883
<input type="checkbox"/>	L13	L12 near25 (l2 or l3 or l4 or l5 or covalent\$)	948
<input type="checkbox"/>	L14	L13 same l1	3
<input type="checkbox"/>	L15	L13 and l1 not l14	34
<input type="checkbox"/>	L16	l15 and (polysaccharide or saccharide or disaccharide or trisaccharide or oligosaccharide or oligo-saccharide or poly-saccharide or lipopolysaccharide or lipo-poly-saccharide)	22
<input type="checkbox"/>	L17	(complex or conjugate or linkers or linked or coupling or coupled or joiner or joined or joins or complexes or carrier or carriers)	5110233
<input type="checkbox"/>	L18	L17 near10 l1	24
<input type="checkbox"/>	L19	shiga or holo or holotoxin or holo-toxin or slt or slt1 or slt\$2 or shigatoxin or shiga-toxin or shigalike or shiga-like or holotoxins or stx1 or stx2	43620
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<input type="checkbox"/>	L24	11 near10 (polysaccharide or saccharide or disaccharide or trisaccharide or oligosaccharide or oligo-saccharide or poly-saccharide or lipopolysaccharide or lipo-poly-saccharide)	11
<input type="checkbox"/>	L25	ab5.ti,ab,clm. or ab-5.ti,ab,clm. or a-b5.ti,ab,clm.	187
<input type="checkbox"/>	L26	L25 an dl20	0
<input type="checkbox"/>	L27	L25 and l20	1

END OF SEARCH HISTORY

[First Hit](#)    [Fwd Refs](#) [Generate Collection](#) [Print](#)

L24: Entry 1 of 11

File: USPT

Mar 9, 2004

DOCUMENT-IDENTIFIER: US 6703233 B1

TITLE: Plasmid maintenance system for antigen delivery

Other Reference Publication (65):

Diana Karpman et al, "The Role of Lipopolysaccharide and Shiga-like Toxin in a Mouse Model of Escherichia coli 0157:H7 Infection", The Journal of Infectious Diseases, 1997 175, pp. 611-620.

